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Dr. William Anthony Granville, Instructor in Mathematics in Sheffield Scientific School of Yale University, has designed a plotting paper, The Polar Coördinate Plotting Paper. Every teacher of Analytical Geometry must often have felt the need of such paper. But not only is this paper serviceable to the students of Analytical Geometry and Calculus, but also in the solution of problems in Vector Analysis, Mechanics, Astronomy, and Engineering. The price of the paper is about the same as for ordinary rectangular plotting paper. Persons desiring to use this paper should write to Dr. Granville.

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### *BOOKS.*

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*An Elementary Treatise on the Calculus*, with illustrations from Geometry, Mechanics, and Physics. By George A. Gibson, M. A., F. R. S. E., Professor of Mathematics in the Glasgow and West of Scotland Technical College. Cloth, 12mo., xix+459 pages. Price, \$1.90, net. New York : The Macmillan Co.

In writing this work, the aim of the author seems to have been to prepare the student for immediately applying the principles and processes of the Calculus in any department of his studies in which the Calculus is used. With this end in view he has illustrated the applications of the Calculus by drawing on Geometry, Mechanics, and Physics. We heartily approve of this method of treating the subject. The Calculus is being studied by a larger number of students to-day than ever before, and by its making use of illustrations in such apparently unrelated subjects as Physics and Chemistry, greater interest is aroused. This book emphasizes the fact that even in such a subject as Chemistry a sound knowledge of the Calculus is of especial importance, since it is the properties of functions of more than one variable that are predominant in chemical investigations. The book closes with a short chapter on Ordinary Differential Equations, designed to illustrate the types of equations most frequently met with in dynamics, physics, and mechanical and electrical engineering.

B. F. F.

*The Groups of Steiner in Problems of Contact*, by Dr. Leonard E. Dickson. Reprinted from the Transactions of the American Mathematical Society.

*Representation of Linear Groups as Transitive Substitution Groups*. By Dr. Leonard E. Dickson. Reprinted from the American Journal of Mathematics, Vol. XXIII, No. 4.